

ABSTRACT OF THE DISCLOSURE

Bone implantable devices and methodologies permit careful application of biologically active substances and management of bone growth processes. The device includes a body defining a carrier receiving area for locating adjacent bone. Carrier material is located in the carrier receiving area. Substance is delivered onto carrier material through a port. A pathway delivers substance from the carrier receiving area to the bone surface. The body may be in the form of a spinal fusion cage, facet fusion screw, artificial joint, bone fixation plate, interbody graft, IM nail, hip stem, or other bone-to-bone appliances or bone-to-device appliances. In use, carrier is installed in the carrier receiving area of the device. The device is then implanted adjacent a bone. The substance is applied to the carrier for subsequent delivery to the bone. By doping carrier material after device implantation, inadvertent contact of the substance with non-target bone is more easily eliminated.

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